

Precautions

On safety

- As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the player, unplug the player, and have it checked by qualified personnel before operating it any further.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this player. Attempting to do so may damage the player. Do not use such discs.

Cleaning the cabinet

- Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine.

On power sources

- For AC operation, use the supplied AC power cord; do not use any other type.
- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- Unplug the player from the wall outlet when it is not to be used for an extended period of time.
- For battery operation, use six size D (R20) batteries.
- When the batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or corrosion.
- The nameplate indicating operating voltage, power consumption, etc. is located at the bottom.

On placement

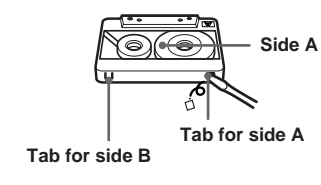
- Do not leave the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place the player on an inclined or unstable place.
- Do not place anything within 10 mm of the side of the cabinet. The ventilation holes must be unobstructed for the player to operate properly and prolong the life of its components.
- If the player is left in a car parked in the sun, be sure to choose a location in the car where the player will not be subjected to the direct rays of the sun.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the player to prevent possible damage from the magnet.

On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the CD player section. Should this occur, the player will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.
- If the player has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.

Notes on cassettes

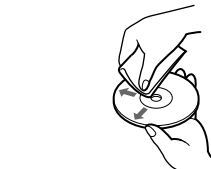
- Break off the cassette tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab with adhesive tape.



- The use of a cassette with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.



- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
 - Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.
 - Do not stick paper or sticker on the CD, nor scratch the surface of the CD.
 - After playing, store the CD in its case.
- If there is a scratch, dirt or fingerprints on the CD, it may cause tracking error.

About CD-Rs/CD-RWs

This player can play CD-Rs/CD-RWs recorded in the CD-DA format*, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

* CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for Audio CDs.

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

Troubleshooting

General

The power does not come on.

- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak.
- You cannot turn on the player with the remote when you operate the player on batteries.

The power is not on, and "bAttErY" and "Error" are displayed alternately.

- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak.

There is no audio.

- Adjust the volume.
- Unplug the headphones when listening through speakers.

Noise is heard.

- Someone is using a portable telephone or other equipment that emits radio waves near the player. →Move the portable telephone, etc., away from the player.

CD Player

The CD does not play or "no dISC" lights in the display even when a CD is in place.

- Place the CD with the label surface up.
- Clean the CD.
- Take out the CD and leave the CD compartment open for about an hour to dry moisture condensation.
- The CD-R/CD-RW was not finalized. Finalize the CD-R/CD-RW with the recording device.
- There is a problem with the quality of the CD-R/CD-RW, recording device or application software.
- Replace all the batteries with new ones if they are weak.

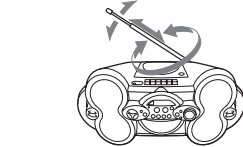
The sound drops out.

- Reduce the volume.
- Clean the CD, or replace it if the CD is badly damaged.
- Place the player in a location free from vibration.
- Clean the lens with a commercially available blower.
- The sound may drop out or noise may be heard when using poor quality CD-Rs/CD-RWs or if there is a problem with the recording device or application software.

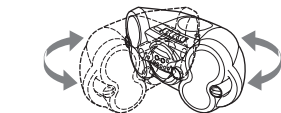
Radio

Reception is poor.

- Reorient the antenna to improve FM reception.



- Reorient the player itself to improve AM reception.



The audio is weak or has poor quality.

- Replace all the batteries with new ones if they are weak.
- Move the player away from the TV.

The picture of your TV becomes unstable.

- If you are listening to an FM program near the TV with an indoor antenna, move the player away from the TV.

Tape Player

The tape does not move when you press an operation button.

- Close the cassette compartment securely.

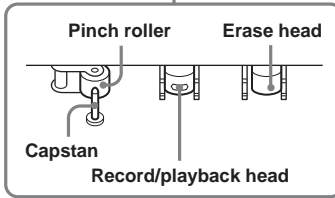
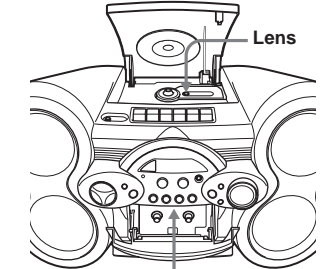
The REC button does not function or the tape does not play or record.

- Make sure the safety tab on the cassette is in place.

Poor or distorted playback, recording or erasing quality.

- Clean the heads, pinch roller and capstan with a cleaning swab slightly moistened with cleaning fluid or alcohol.
- Replace all the batteries with new ones if they are weak.

- TYPE II (high position) or TYPE IV (metal) tape is being used. Use TYPE I (normal) tape only.
- Demagnetize the heads using a commercially available tape head demagnetizer.



Remote

The remote does not function.

- Replace all the batteries in the remote with new ones if they are weak.
- Make sure that you are pointing the remote at the remote sensor on the player.
- Remove any obstacles in the path of the remote and the player.
- Make sure the remote sensor is not exposed to strong light such as direct sunlight or fluorescent lamp light.
- Move closer to the player when using the remote.

After trying the above remedies, if you still have problems, unplug the AC power cord and remove all the batteries. After all the indications in the display disappear, plug the power cord and insert the batteries again. If the problem persists, please consult your nearest Sony dealer.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
With 3.2-ohm loads, both channels driven from 150 - 6,300 Hz; rated 3.0 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

Other specifications

CD player section

System
Compact disc digital audio system
Laser diode properties
Material: GaAlAs
Wave length: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 μW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Spindle speed
200 r/min (rpm) to 500 r/min (rpm) (CLV)
Number of channels
2
Frequency response
20 - 20 000 Hz +1/-2 dB
Wow and flutter
Below measurable limit

Radio section

Frequency range	
US model and Canadian model	
FM	87.5 - 108 MHz
AM	530 - 1 610 kHz
Other models	
FM	87.5 - 108 MHz
AM	530 - 1 610 kHz (10 kHz step) 531 - 1 611 kHz (9 kHz step)

Antennas
FM: Telescopic antenna
AM: Built-in ferrite bar antenna

Cassette recorder section

Recording system
4-track 2 channel stereo
Fast winding time
Approx. 120 s (sec.) with Sony cassette C-60
Frequency response
TYPE I (normal): 80 - 10 000 Hz

General

Speaker
Full range: 10 cm dia., 3.2 ohms, cone type (4)
Tweeter: 2.0 cm (2)
Outputs
Headphones jack (stereo minijack)
For 16 - 68 ohms impedance headphones
Power output
4.5 W + 4.5 W (at 3.2 ohms, 10% harmonic distortion (DC))
Power requirements
For CD stereo radio cassette recorder:
US model and Canadian model:
120V AC, 60 Hz
Central American model and South American model:
110 - 127V, 220 - 240V AC selectable, 50/60 Hz
Other models:
230 V AC, 50 Hz
9 V DC, 6 size D (R20) batteries
For remote control (for CSD-XD55 only):
3 V DC, 2 size AA (R6) batteries
Power consumption
US model, Canadian model, Central American model and South American model :
AC 17 W
Other models:
AC 16 W

Battery life
For CD stereo radio cassette recorder:
FM recording
Sony R20P: approx. 12 h
Sony alkaline LR20: approx. 34 h
Tape playback
Sony R20P: approx. 5.5 h
Sony alkaline LR20: approx. 15.5 h
CD playback
Sony R20P: approx. 2.5 h
Sony alkaline LR20: approx. 12 h

Dimensions
Approx. 552 × 271 × 318 mm (w/h/d)
(21 ½ × 10 ¾ × 12 ½ inches)(incl. projecting parts)
Mass
Approx. 5.4 kg (11 lb. 14 oz) (incl. batteries)
Supplied accessory
AC power cord (1)
Remote control (1) (for CSD-XD55 only)

Design and specifications are subject to change without notice.



3-265-806-12(1)

CD Stereo Radio Cassette Recorder

Operating Instructions

CSD-XD55 CSD-XD51

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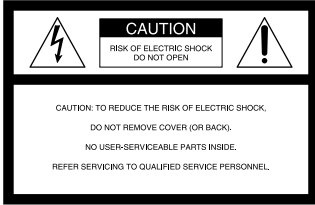
<http://www.aiwa.com/>

English

WARNING

To prevent fire or shock hazard, do not expose the player to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

The use of optical instruments with this product will increase eye hazard.

WARNING

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.
To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the appliance.

For customers in Canada

To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Information

For customers in the USA

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

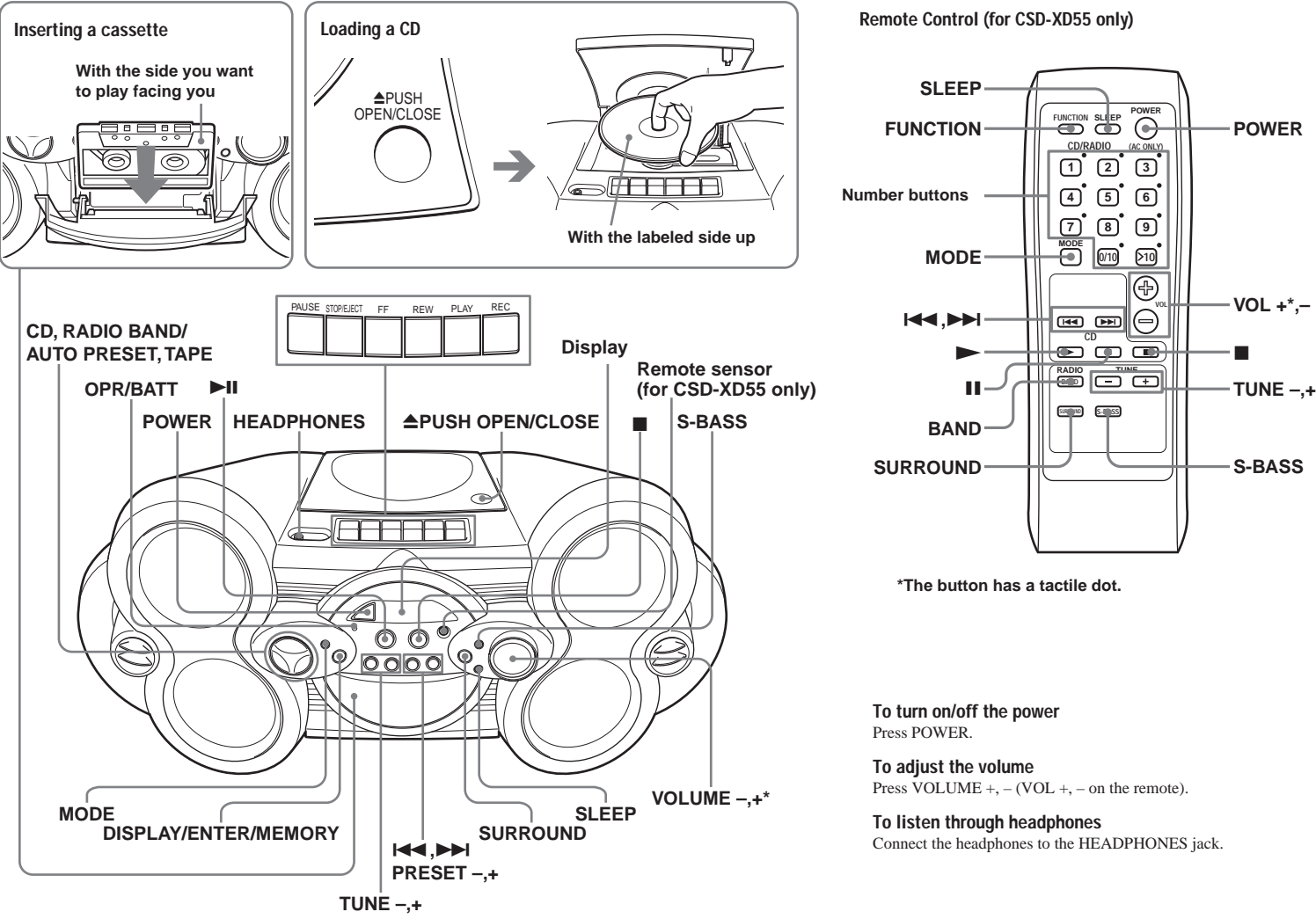
Owner's Record

The model number is located at the bottom and the serial number is located in the battery compartment.
Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.
Model No. _____
Serial No. _____

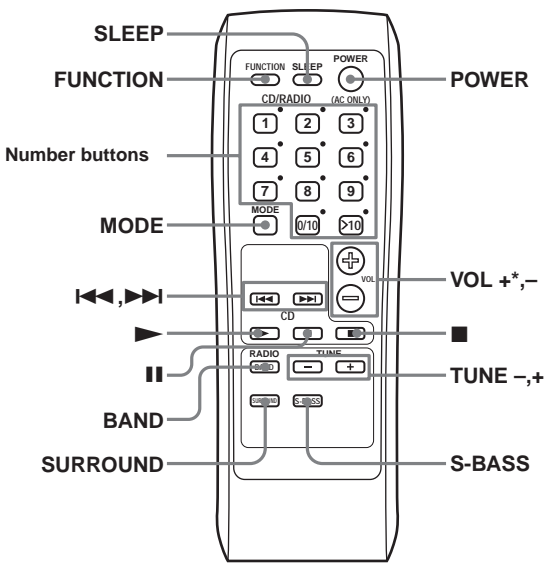
For the customers in the USA

For assistance and information
visit us on the internet at
www.us.aiwa.com
call toll free 1-800-BUY-AIWA
(United States only)

Location of controls



Remote Control (for CSD-XD55 only)



*The button has a tactile dot.

To turn on/off the power

Press POWER.

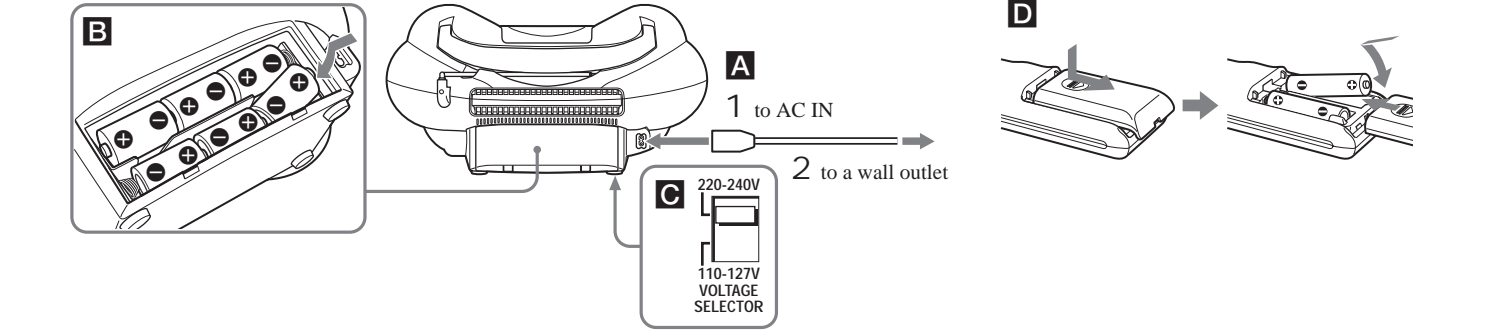
To adjust the volume

Press VOLUME +, - (VOL +, - on the remote).

To listen through headphones

Connect the headphones to the HEADPHONES jack.

Power Sources



Connect the AC power cord **A** or insert six size D (R20) batteries (not supplied) into the battery compartment **B**.

Notes

- Replace the batteries when the OPR/BATT indicator dims or when the player stops operating.
- Replace all the batteries with new ones. Before you replace the batteries, be sure to take out the CD from the player.
- To use the player on batteries, disconnect the AC power cord from the player.
- When you operate the player on batteries, you cannot turn on the player using the remote.

Central American model and South American model only: Adjusting the voltage **C**

Be sure to set the VOLTAGE SELECTOR (at the bottom) to your local power supply.

Tip

Only for the customers supplied with an AC plug adaptor:

Use the supplied AC plug adaptor if the plug of the mains lead does not match your outlet.

Playing a CD

- Press CD (direct power-on).
(On the remote, press POWER and then press FUNCTION repeatedly until “Cd” appears in the display.)
- Load a CD in the CD compartment.
- Press **▲** PUSH OPEN/CLOSE to close the CD compartment.
- Press **▶▶** (▶ on the remote).
The player plays all the tracks once.

To	Press
stop playback	■
pause playback	▶▶ (II on the remote) Press the button again to resume play after pause.
go to the next track	▶▶
go back to the previous track	I<<<
remove the CD	▲ PUSH OPEN/CLOSE
locate a point while listening to the sound	▶▶ (forward) or I<<< (backward) while playing until you find the point
locate a point while observing the display	▶▶ (forward) or I<<< (backward) in pause until you find the point
locate a specific track directly*	a number button of the track on the remote.

* You cannot locate a specific track if “SHUF” or “PGM” is lit in the display. Turn off the indication by pressing ■.

Tip
To locate a track numbered over 10, press >10 first, then the corresponding number buttons on the remote.
Example: To play track number 23, press >10 first, then 2 and 3.

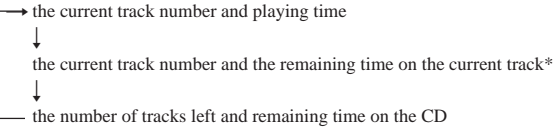
Using the display

To check the total track number and playing time

Press DISPLAY/ENTER/MEMORY in stop mode (see fig. **E**).

To check the remaining time

Press DISPLAY/ENTER/MEMORY repeatedly while playing a CD. The display changes as follows:



* For a track whose number is more than 20, the remaining time appears as “-:- -:-” in the display.

Selecting the play mode

Press MODE until “REP 1” “REP ALL” “SHUF” “SHUF REP” “PGM” “PGM REP” appears in the display. Then proceed as follows:

To	Select	Then do this
repeat a single track	“REP 1”	Press I<<< or ▶▶▶ to select the track that you want to repeat, then press ▶▶.
repeat all tracks	“REP ALL”	Press ▶▶.
shuffle play	“SHUF”	Press ▶▶.
repeat tracks in random order	“SHUF REP”	Press ▶▶.
program play	“PGM”	Press I<<< or ▶▶▶ then press DISPLAY/ENTER/MEMORY for the tracks you want to program in the order you want up to 20 tracks (see fig. F). Then press ▶▶.
repeat programmed tracks	“PGM REP”	Press I<<< or ▶▶▶ then press DISPLAY/ENTER/MEMORY for the tracks you want to program in the order you want up to 20 tracks. Then Press ▶▶.

On the remote (for CSD-XD55 only)

When you’ve selected “PGM” or “PGM REP”, press the number buttons for the track you want up to 20 tracks, then press ▶.

To cancel selected play mode

Press MODE until the selected mode disappears from the display.

To check the programmed track and playing order in the display

To check the order of tracks before play, press DISPLAY/ENTER/MEMORY.

Every time you press the button, the track number appears in the programmed order.

To change the current program

Press ■ once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programming procedure.

Tip

You can record your own program. After you’ve created the program, insert a blank tape and press ● to start recording.

Listening to the radio

- Press RADIO BAND/AUTO PRESET until the band you want appears in the display (direct power-on).
Each time you press the button, the indication changes as follows:
“FM” → “AM”
- Hold down TUNE + or – until the frequency digits begin to change in the display.

The player automatically scans the radio frequencies and stops when it finds a clear station.

If you can’t tune in a station, press the button repeatedly to change the frequency step by step.

Tip

If the FM broadcast is noisy, press MODE until “Mono” appears in the display and the radio will play in monaural.

Changing the AM tuning interval (except US and Canadian models)

If you need to change the AM tuning interval, do this following:

- While keeping the RADIO BAND/AUTO PRESET button and ■ button pressed, disconnect the AC power cord from the AC outlet.
- While keeping the RADIO BAND/AUTO PRESET button and ■ button pressed, reconnect the AC power cord to the AC outlet. The tuning interval is changed and “AM 9” or “AM 10” appears in the display for 2 seconds.

After changing the tuning interval, you need to reset your preset radio stations.

Presetting radio stations

You can store radio stations into the player’s memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.

- Press RADIO BAND/AUTO PRESET to select the band.
- Hold down RADIO BAND/AUTO PRESET for 2 seconds until “AUTO” flashes in the display.
- Press DISPLAY/ENTER/MEMORY.
The stations are stored in memory from the lower frequencies to the higher ones.

If a station cannot be preset automatically

You need to preset a station with a weak signal manually.

- Press RADIO BAND/AUTO PRESET to select the band.
- Tune in a station you want.
- Hold down DISPLAY/ENTER/MEMORY for 2 seconds until the preset number flashes in the display.
- Press PRESET + or – repeatedly that you want to preset the new station.
- Press DISPLAY/ENTER/MEMORY.

On the remote (for CSD-XD55 only)

- Press BAND until the band you want appears in the display.
- Tune in a station you want.
- Hold down the number buttons that you want to preset the new station on for about 2 seconds.
To select the preset number over 10, press >10 first, then the corresponding number buttons. You need to hold down the last number button to enter for about 2 seconds.
(Example: To select 12, press >10 and 1 first, then hold down 2 for about 2 seconds.)

Playing preset radio stations

- Press RADIO BAND/AUTO PRESET to select the band.
- Press PRESET + or –.

On the remote (for CSD-XD55 only)

- Press BAND.
- Press the number buttons to to tune in the stored station.
To tune in a preset station over 10, press >10 first, then corresponding number buttons.
(Example: To tune in a preset station 12, press >10 and 1 first, and then press 2.)

Playing a tape

- Press TAPE (direct power-on).
(On the remote, press POWER and then press FUNCTION repeatedly until “TAPE” appears in the display.)
- Press **■▲** to open the tape compartment and insert a recorded tape. Close the compartment. Use TYPE I (normal) tape only.
- Press **◀**.

To	Press
stop playback	■▲
fast-forward or rewind the tape	◀◀ or ▶▶
pause playback	II
	Press the button again to resume play after pause.
eject the cassette	■▲

Recording

- Press **■▲** to open the tape compartment and insert a blank tape. Use TYPE I (normal) tape only.
- Select the program source you want to record.
To record from the CD player
Press CD and insert a CD (See “Playing a CD”).
To record from the radio
Press RADIO BAND/AUTO PRESET and tune in the station you want (See “Listening to the radio”).
- Press ● to start recording.
(◀ is depressed automatically.)

To	Press
stop recording	■▲
pause recording	II
	Press the button again to resume recording.

Tips

- Adjusting the volume or the audio emphasis will not affect the recording level.
- If the AM program makes a whistling sound after you’ve pressed ● in step 3, press MODE to select the beat mode (“bEAt 1”, “bEAt 2” or “bEAt 3”) that most decreases the noise.
- For the best results, use the AC power as a power source for recording.
- To erase a recording, proceed as follows:
 - Insert a tape with the recording you want to erase.
 - Press TAPE.
 - Press ●.

Adjusting the sound emphasis

To reinforce the bass sound

Press S-BASS.

“S-BASS” appears in the display.

To return to normal sound, press the button again.

To get the SURROUND effect

Press SURROUND.

“SURROUND” appears in the display.

You can get the effect of expansion of the sound field.

To return to normal sound, press the button again.

Falling asleep to music

- Play the music source you want.
- Press SLEEP to display “SLEEP.”
- Press SLEEP to select the minutes until the player goes off automatically.
Each time you press the button, the indication changes as follows: “60” → “90” → “120” → “OFF” → “10” → “20” → “30”

To cancel the sleep function

Press POWER to turn off the power.

Note

When you are playing a tape using this function:

If the tape length of one side is longer than the set time, the player will not go off until the tape reaches the end.